

MAIL TO:

STATE OF UTAH
 DIVISION OF PURCHASING
 3150 STATE OFFICE BUILDING, CAPITOL HILL
 P.O. BOX 141061
 SALT LAKE CITY, UTAH 84114-1061
 TELEPHONE (801) 538-3026
<http://www.purchasing.state.ut.us>

Invitation to BidSolicitation Number: **JG3092**Due Date: **12/17/02 2:00 PM**

Date Sent: December 3, 2002

Goods and services to be

TWO 40 FOOT TELESCOPING BUCKET TRUCKS WITH TRADE IN OPTION**Please complete**

Company Name		Federal Tax Identification Number	
Ordering Address	City	State	Zip Code
Remittance Address (if different from ordering address)	City	State	Zip Code
Type <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Proprietorship <input type="checkbox"/> Government	Company Contact Person		
Telephone Number (include area code)	Fax Number (include area code)		
Company's Internet Web Address	Email Address		
Discount Terms (for bid purposes, bid discounts less than 30 days will not be considered)	Days Required for Delivery After Receipt of Order (see attached for any required minimums)		
<p>The following documents are included in this solicitation: Solicitation forms, instructions and general provisions, and specifications. <u>Please review all documents carefully before completing.</u></p> <p>The undersigned certifies that the goods or services offered are produced, mined, grown, manufactured, or performed in Utah. Yes_____ No_____. If no, enter where produced, etc. _____</p>			
Offeror's Authorized Representative's Signature		Date	
Type or Print Name		Position or Title	

STATE OF UTAH
DIVISION OF PURCHASING

Invitation to Bid

Solicitation Number: JG3092

Due Date: 12/17/02 2:00 PM

Vendor Name:

Item#	Qty	Unit	Description	Unit Price	Extension
1	2	EACH	40 FOOT TELESCOPING, ARTICULATED BUCKET TRUCKS PER ATTACHED SPECIFICATIONS ALL BIDDERS MUST COMPLETE AND SUBMIT "EXHIBIT A" ON BID DUE DATE.	\$	\$
2	2	EACH	OPTION TO TRADE IN TWO 2000 INTERNATIONAL 4700 LP WITH MAN-LIFT SIGNALIER MODEL ID T-528 AGAINST THE PURCHASE OF TWO QUOTED UNITS. PLEASE SEE ATTACHED PHOTOS. FOR APPOINTMENT TO SEE TRADE-INS CALL DAVE HOPKINS (801) 965-4933. THEY ARE LOCATED AT 4501 S. 2700 W., SLC, UT	\$	\$
GRAND TOTAL					\$

THIS IS AN INVITATION TO BID THEREFORE YOU MAY SUBMIT YOUR BID IN PERSON OR MAIL IT TO STATE PURCHASING. FAXED BIDS WILL NOT BE CONSIDERED.

FOR TECHNICAL QUESTIONS PLEASE CONTACT PAUL ROTTMANN AT (801) 965-4078 OR PROTTMANN@UTAH.GOV

FOR QUESTION RELATED TO THE BID PROCESS PLEASE CONTACT JARED GARDNER AT (801) 538-3342 OR JAREDGARDNER@UTAH.GOV

REF RX# 810-36300000025

Ship To: DEPARTMENT OF TRANSPORTATION
CENTRAL SHOPS
4501 SOUTH 2700 WEST

FREIGHT CHARGES (if applicable)

SHIPPING POINT AND ZIP CODE	
SHIPPING WEIGHT	
MODE OF TRANSPORTATION (Please check one)	
Q Small package/Ground Q LTL(Less than truck load) Q Truckload Q Air Q Other (Please specify)	
NMFC Class # _____	
NMFC Item # _____	
TOTAL PRICE LESS FREIGHT (FOB Origin)	\$
TOTAL PRICE INCLUDING FREIGHT (FOB Destination)	\$

INVITATION TO BID - INSTRUCTION AND GENERAL PROVISIONS

1. **BID PREPARATION:** (a) All prices and notations must be in ink or typewritten. (b) Price each item separately. Unit price shall be shown and a total price shall be entered for each item bid. (c) Unit price will govern, if there is an error in the extension. (d) Delivery time is critical and must be adhered to as bid. (e) Wherever in this document an item is defined by using a trade name of a manufacturer and/or model number, it is intended that the words, "or approved equal" apply. "Or approved equal" means any other brand that is equal in use, quality, economy and performance to the brand listed as determined by the Division of Purchasing & General Services (DIVISION). If the bidder lists a trade name and/or catalog number in the bid, the DIVISION will assume the item meets the specifications unless the bid clearly states it is an alternate, and describes specifically how it differs from the item specified. **MULTIPLE OR ALTERNATE BIDS WILL NOT BE ACCEPTED UNLESS SO STATED IN THE SPECIFICATIONS.** (f) By signing the bid the bidder certifies that all of the information provided is accurate, and that prices bid are correct. (g) This bid may not be withdrawn for a period of 60 days from bid due date.

2. **SUBMITTING THE BID:** (a) The bid must be signed in ink, sealed in a properly-addressed envelope, and either mailed or delivered to the DIVISION OF PURCHASING, 3150 State Office Building, Capitol Hill, Salt Lake City, UT 84114-1061 by the "Due Date and Time." **The "Bid Number" and "Due Date" must appear on the outside of the envelope.** (b) Bids, modifications, or corrections received after the closing time on the "Due Date" will be considered late and handled in accordance with the Utah Procurement Rules, section R33-3-109. (c) **Your bid will be considered only if it is submitted on the forms provided by the state. Facsimile transmission of bids to DIVISION will not be considered.** (d) All prices quoted must be both F.O.B. Origin per paragraph 1.(c) and F.O.B. Destination. Additional charges including but not limited to delivery, drayage, express, parcel post, packing, cartage, insurance, license fees, permits, costs of bonds, or for any other purpose must be included in the bid for consideration and approval by the DIVISION. Upon award of the contract, the shipping terms will be F.O.B. Destination, Freight Prepaid with freight charges to be added to the invoice unless otherwise specified by the DIVISION. (e) All State purchases are subject to the Utah Procurement Code, Title 63, Chapter 56 Utah Code Annotated 1953, as amended, and the Procurement Rules as adopted by the Utah State Procurement Policy Board (Utah Administrative Code Section R33).

3. **FAILURE TO BID:** Failure to respond may result in the removal of your firm from the bidder's list for the commodity(s) listed, unless you advise DIVISION in writing prior to due date that you desire to receive future invitations to bid on this commodity(s). **Three consecutive no responses will automatically result in removal.**

4. **PROPRIETARY INFORMATION:** Suppliers are required to mark any specific information contained in their bid which is not to be disclosed to the public or used for purposes other than the evaluation of the bid. Each request for nondisclosure must be accompanied by a specific justification explaining why the information is to be protected. Pricing and service elements of any bid will not to be considered proprietary. Bids submitted may to be reviewed and evaluated by any persons at the discretion of the state.

5. **BONDS:** The state has the right to require a bid bond, payment bond and/or a faithful performance bond from the bidder in an amount not to exceed the amount of the contract.

6. **SAMPLES:** Samples of item(s) specified in this bid, when required by DIVISION, must to be furnished free of charge to DIVISION. Any item not destroyed by tests may, upon request made at the time the sample is furnished, to be returned at the bidder's expense.

7. **WARRANTY:** The contractor agrees to warrant and assume

responsibility for all products (including hardware, firmware, and/or software products) that it licenses, contracts, or sells to the State of Utah under this contract for a period of one year, unless otherwise specified and mutually agreed upon elsewhere in this contract. The contractor (seller) acknowledges that all warranties granted to the buyer by the Uniform Commercial Code of the State of Utah applies to this contract. Product liability disclaimers and/or warranty disclaimers from the seller are not applicable to this contract unless otherwise specified and mutually agreed upon elsewhere in this contract. In general, the contractor warrants that: (1) the product will do what the salesperson said it would do, (2) the product will live up to all specific claims that the manufacturer makes in their advertisements, (3) the product will be suitable for the ordinary purposes for which such product is used, (4) the product will be suitable for any special purposes that the State has relied on the contractor's skill or judgement to consider when it advised the State about the product, (5) the product has been properly designed and manufactured, and (6) the product is free of significant defects or unusual problems about which the State has not been warned. Remedies available to the State include the following: The contractor will repair or replace (at no charge to the State) the product whose nonconformance is discovered and made known to the contractor in writing. If the repaired and/or replaced product proves to be inadequate, or fails of its essential purpose, the contractor will refund the full amount of any payments that have been made. Nothing in this warranty will be construed to limit any rights or remedies the State of Utah may otherwise have under this contract.

8. **DIVISION APPROVAL:** Purchase orders placed, or contracts written, with the state of Utah, as a result of this bid, will not to be legally binding without the written approval of the director of the DIVISION.

9. **AWARD OF CONTRACT:** (a) the contract will to be awarded with reasonable promptness, by written notice, to the lowest responsible bidder that meets the specifications. Consideration will to be given to the quality of the product(s) to be supplied, conformity to the specifications, the purpose for which required, delivery time required, discount terms and other criteria set forth in this invitation to bid. (b) The bids are opened publicly in the presence of one or more witnesses. the name of each bidder, and the amount of the bid is recorded. Each bid, and the record, is open to public inspection. (c) The DIVISION may accept any item or group of items, or overall low bid. the DIVISION has the right to cancel this invitation to bid at any time prior to the award of contract. (d) The DIVISION can reject any and all bids. And it can waive any informality, or technicality in any bid received, if the DIVISION believes it would serve the best interest of the State. (e) Before, or after, the award of a contract the DIVISION has the right to inspect the bidder's premises and all business records to determine the holder's ability to meet contract requirements. (f) DIVISION does not guarantee to make any purchase under awarded contract(s). Estimated quantities are for bidding purposes only, and not to be interpreted as a guarantee to purchase any amount. (g) Utah has a reciprocal preference law which will to be applied against bidders bidding products or services produced in states which discriminate against Utah products. For details see Section 63-56 20.5 -20.6, Utah Code Annotated.

10. **ANTI-DISCRIMINATION ACT:** The bidder agrees to abide by the provisions of the Utah Anti-discrimination Act, Title 34 Chapter 35, U.C.A. 1953, as amended, and Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibit discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age, and Section 504 of the Rehabilitation Act of 1973 or the Americans with Disabilities Act of 1990, which prohibits discrimination on the basis of disabilities. Also bidder agrees to abide by Utah's Executive Order, dated March 17, 1993, which prohibits sexual harassment in the workplace. Vendor must include this provision in every

subcontract or purchase order relating to purchases by the State of Utah to insure that the subcontractors and vendors are bound by this provision.

revision date: 2/14/2000

UTAH DEPARTMENT OF TRANSPORTATION
Equipment Operations
Steve McCarthy - Equipment Operations Manager

UDOT Purchasing Agent: Paul Rottmann
PHONE NO: (801) 965-4078
FAX NO: (801) 965-4073
E-MAIL: prottmann@utah.gov
Commodity Code: 545-39 Lifts

PREPARED BY: David Hopkins
Equipment Specialist
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Revised: October 28, 2002

**AERIAL DEVICE, TRUCK-MOUNTED, ARTICULATED- TELESCOPING
40 FOOT - FOR TWO UNITS.**

PUBLICATION

This specification is a product of the Utah Department of Transportation, hereinafter referred to as STATE. STATE does not assume nor accept any liability when this specification is used in the procurement process by any other entity.

PART I: GENERAL CLAUSES AND CONDITIONS

1. The equipment furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, and shall be of quality workmanship and material. The supplier represents that all equipment offered under this specification shall be new, or demonstrator, with less than 50 hours. DISCONTINUED MODELS ARE NOT ACCEPTABLE.
2. Supplier shall submit, with the bid, in duplicate, the latest detailed specifications on the offered equipment. Supplier should submit the latest literature; the literature is for informational purposes only.
3. The units shall be completely assembled and adjusted. All equipment, including standard and supplemental equipment, shall be installed, and the units shall be serviced for continuous operation.
4. All parts not specifically mentioned, but are necessary for the units to be complete and ready for operation, or which are normally furnished as standard equipment, shall be furnished by the supplier. All parts shall conform in strength, quality and workmanship to the accepted standards of the industry.
5. The units provided shall meet or exceed all Federal and State of Utah safety, health, lighting and noise regulations and standards in effect, and which are applicable to equipment furnished, at the time of acceptance.
6. It is the intent of STATE to purchase goods, equipment and services having the least adverse environmental impact, within the constraints of statutory purchasing requirements, departmental need, availability, and sound economical considerations. Suggested changes and environmental enhancements for possible inclusion in future revisions of this specification are encouraged.
7. STATE encourages all manufacturers to voluntarily comply with the Society of Automotive Engineers' (SAE) recommended practices.
8. Measurements will be given in the English system.
9. Failure to provide and comply with Part I of bidder-submitted specifications will result in bid(s) being declared non-responsive.

PART II: SPECIFICATIONS

1. **SCOPE:**
This specification describes a truck-mounted, hydraulically powered, elevating and rotating aerial personnel work device. Units shall safely lift the required capacity to the heights specified in applications such as overhead sign maintenance, safety lighting maintenance, traffic signal maintenance, etc. The specification is inclusive of telescoping, articulating, and articulating over center-type booms. If a particular boom type is required, it will be specified on the Invitation For Bids (IFB). The aerial device shall be complete, assembled, mounted, serviced, tested and certified in accordance with the latest revision of the American National Standard Vehicle-Mounted Elevating and Rotating Aerial Devices ANSI/SIA A92.2 -2001 on the vehicle specified on the IFB. Units furnished to these specifications shall meet or exceed all the following requirements:

EXAMPLE: Duralift DPM-40
Versalift VST-40
or STATE approved equal.

NOTICE TO BIDDERS:

Any example shown is listed to show type and class of equipment desired. Bidders are cautioned to read the specifications carefully, as there may be special requirements not commonly offered by the equipment manufacturer. Do not assume your standard equipment meets all detailed specifications merely because it is listed as an example. Bidders are cautioned that units delivered to the FOB points which do not meet specifications in every aspect will not be accepted.

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2. ANSI: Units meeting this specification shall be in compliance with the latest revision of "American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices". Requirements contained in this specification that were extracted from the ANSI publication will be cross-referenced with the initials "ANSI" and the appropriate paragraph numbers for the bidder's convenience. The vendor shall remain responsible for ensuring all ANSI requirements are met.
3. DEVICE CAPABILITIES
 - 3.1 BUCKET HEIGHT: The bucket height shall be a minimum 39 feet 8 inches as specified on the IFB, measured at maximum elevation of the device, from the floor of the bucket to the ground with the device mounted on the vehicle as specified on the IFB. Extensions, spacers, inserts, etc., shall not be installed on this aerial device solely for the purpose of meeting height requirements. Any other type spacer that is a standard feature of the design of the aerial device shall not exceed eight inches in height.
 - 3.2 REACH: The reach of the device shall be measured from the center line of the pedestal to the outer edge of the bucket. Units shall have a reach of at least 26 feet at a bucket height of 16 feet.
 - 3.3 CAPACITY: The rated capacity of the units shall be a minimum 300 pounds, unless otherwise specified on the IFB. The rated capacity shall be designated with the boom(s) extended to the position of maximum overturning moment attainable throughout full rotation of its pedestal.
 - 3.4 JIB & WINCH:
 - 3.4.1 Shall have material handling jib-and-winch consisting of a platform shaft mounted jib-pole and winch.
 - 3.4.2 Jib shall be constant in any non-over-center boom position.
 - 3.4.3 Shall have 750 lbs. minimum capacity.
4. STABILITY REQUIREMENTS
 - 4.1 LEVEL GROUND: The device, when mounted on the truck as specified, shall sustain a static load one and one-half times its rated load capacity, in every position in which the load can be placed within the definition of the specific configuration, when the units are on a firm and level surface. If stability-assist equipment such as torsion bar is part of the definition of the configuration, they shall be put into use for the purpose of determining whether the units meet the stability requirements.
 - 4.2 SLOPES: The device, when mounted on the truck as specified, shall sustain a static load one and one-third times its rated load capacity, in every position in which the load can be placed within the definition of the specific configuration when the vehicle is on a slope of five percent downward in the direction most likely to cause overturning. Stability-assist equipment, torsion bar shall be put into use for the purpose of determining whether the units meet the stability requirements.
 - 4.3 TORSION BAR(S):

Units shall be equipped with torsion bar stabilizer(s) mounted to the chassis to prevent excessive tipping and spring compression with the device in working position to the side of the truck. Torsion bar(s) installed shall be of the quantity, size and type recommended by the manufacturer of the aerial device.
 - 4.4 OUTRIGGERS
 - 4.4.1 The units shall be equipped with a minimum of two each "A" or "H" type outriggers.
 - 4.4.2 Outriggers shall be telescoping and self-locking.
 - 4.4.3 Outriggers shall be hydraulically operated with double-acting cylinders and shall be individually controlled to permit leveling of the truck on moderately sloping surfaces. The hydraulic system must be equipped with manual shut-off or diversion valve(s) to prevent inadvertent operation of the outriggers when the boom is aloft.
 - 4.4.4 Outrigger spread at full extension shall not exceed 144 inches.
 - 4.4.5 Outriggers, when fully retracted, shall have a minimum 12 inches ground clearance.
5. PERSONNEL BUCKET:
 - 5.1 Bucket shall be of fiberglass construction and fully enclosed on the sides and bottom.
 - 5.2 Bucket shall have an insulated, positive-type self-leveling system, that will cause the bucket to automatically assume and hold a level position as the boom elevation varies. (Gravity or pendulum type leveling is not acceptable.)
 - 5.3 Bucket size shall be for one person with minimum dimensions of 24 inches by 30 inches by 42 inches deep.
 - 5.4 Bucket shall have a molded exterior step or steps for entering the bucket from the truck bed, or be designed to provide easy entrance into the bucket by other means.
 - 5.5 Buckets shall be equipped with a removable weather-tight cover of plastic or similar type fabric.

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- 5.6. Bucket shall be accessible from the ground.
- 5.7. Shall have hydraulically driven bucket rotation. The bucket shall rotate 360 degrees in either direction. Continuous rotation is acceptable, but is not required.
6. BOOM AND PEDESTAL: Units will be equipped with an articulate, telescopic, elbow boom design.
 - 6.1 LOWER BOOM: The lower boom or section shall be constructed of steel not to exceed vehicle width of mirrors when rotated.
 - 6.2 UPPER BOOM: Upper boom or section shall be constructed of fiberglass and shall be electrically insulated and certified to the requirements of the latest revision of ANSI/SIA, Class "C".
 - 6.3 PEDESTAL: The pedestal furnished shall be the standard design for the aerial device model bid. Pedestal shall be mounted in the manner recommended by the manufacturer. Mounting shall provide for a minimum of overhang of the device on both the front and rear of the truck.
 - 6.4 BOOM ROTATION: The device shall rotate 360 degrees in either direction. Continuous rotation is acceptable but not required.
7. HYDRAULIC SYSTEM: Power for elevation, extension, rotation and related movements of the device shall be by means of a complete hydraulic system.
 - 7.1. An SAE power take-off assembly on the truck transmission shall power the hydraulic pump(s).
 - 7.2. System shall include all necessary hoses, fittings, connectors, reservoir, cylinders, (cylinders with double-acting holding valves, no chains or cables) filter and other items necessary for operation.
 - 7.3. Hydraulic system shall be equipped with the appropriate devices to prevent free and unrestricted motion of the aerial device to include boom(s) and bucket leveling system as provided in the event of hydraulic failure.
 - 7.3.1 The units shall be equipped with an emergency power system to provide back-up power in case the truck engine fails and the hydraulic system is inoperable. The system shall consist of a 12-volt DC electrical pump, which operates off the truck battery to safely lower the bucket and operator. Controls shall be at the bucket and pedestal.
 - 7.3.2 The aerial device shall have easily accessible reducing valves to bleed off hydraulic pressure and safely lower the bucket and pedestal in the event of the failure of both the truck engine and electrical system.
8. CONTROLS: Controls shall be feather type, furnished at the bucket and pedestal for controlling all movements of the device.
 - 8.1 Pedestal controls shall override the bucket controls and provide full metering for gradual movement of all functions.
 - 8.2 Bucket control lines shall be permanently installed in the interior of the boom.
 - 8.2.1 Bucket and pedestal controls shall be insulated and provide full metering for gradual movement of all functions.
 - 8.2.2 Bucket and pedestal controls shall automatically assume a neutral or off position when released by the operator to automatically stop the motion of the device.
 - 8.3 Insulated return to neutral type controls to start and stop the truck engine shall be provided at the bucket. An engine throttle control shall also be provided if the aerial device is equipped with an open-center-type hydraulic system.
9. MARKINGS: The aerial device shall include, but not be limited to the following legible, permanent markings readily visible to the operator:
 - 9.1 IDENTIFICATION MARKINGS: The manufacturer shall install markings indicating the following: make, model, insulation qualification voltage and date of test, serial number, rated load capacity, bucket height, and aerial device system pressure or aerial device system voltage, or both.
 - 9.2 OPERATION MARKINGS: The manufacturer shall install markings describing the function of each control.
 - 9.3 INSTRUCTION MARKINGS: The manufacturer shall install markings which indicate hazards inherent in the operation of an aerial device, and those hazards for which the aerial device does not provide protection. These markings shall include:
 - 9.3.1 Electrical hazard markings cautioning that the aerial device does not provide protection to the operator from contact with or proximity to an electrically charged conductor when the operator is in contact with or in proximity to another conductor. These shall include weather-resistant markings (signs) of not less than 5 inches (127 mm) by 7 inches (178 mm) with a yellow background and black lettering reading as follows: "WARNING-UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN TEN FEET OF HIGH VOLTAGE LINES." These must be legible at 12 feet (3.7 m) and placed as follows:

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- 9.3.1.1 On the equipment, readily visible to the operator(s) at each control station.
 - 9.3.1.2 On the outside of equipment in such number and location as to be readily visible to other persons engaged in the work operations from all sides of the vehicle.
 - 9.3.2 Electrical hazard markings cautioning that the aerial device, when working on or in proximity to energized conductors, shall be considered energized, and that contact with the aerial device or vehicle under those conditions may cause serious injury. The markings shall also warn that there is no protection from phase-to-phase situations.
 - 9.3.3 Hazards that may result from improper or non-prescribed use of the aerial device.
 - 9.3.4 Information concerning the use and load rating of the equipment for material handling.
10. TRUCK BODY: The truck shall be equipped with a low silhouette body designed for general utility work and suitable for mounting on a truck chassis having dual rear wheels and meeting the latest revision of ANSI Sections 6 and 7. The body shall be treated for resistance to rust and corrosion prior to being painted. The body requirements, which follow, are listed for a 84-inch cab-to-axle dimension. The cab-to-axle dimension for the furnished vehicle shall be contained in the current General Services Commission (GSC) Utah Automobile and Truck Specification, or will be specified on the IFB.
- 10.1 Body length 108 inches.
 - 10.2 Both sides shall be equipped with two full-height, vertical compartments for the body 84-inch cab-to-axle. These compartments shall be forward of the rear wheels.
 - 10.3 Both sides shall be equipped with a minimum of one full-height vertical compartment behind the rear wheels, 22 inches wide.
 - 10.4 Both sides shall be equipped with one horizontal compartment over the rear wheels, approximately 46 inches wide.
 - 10.5 Compartment doors shall have recessed handles with slam-action latches, and all locks keyed alike.
 - 10.6 Each vertical compartment shall have two adjustable shelves, and the horizontal compartments shall have material drawers with dividers.
 - 10.7 Body shall be equipped with a full-width, wrap-around, tread plate, step type rear bumper with recessed area for license plate installation. Extension of the body floor or bumper extension for entrance into the bucket is permissible, if design of the device as advertised by the manufacturer requires this feature.
 - 10.8 Shall have hitch receiver with frame reinforced for towing.
 - 10.9 A tread plate of minimum 1/8-inch (3 mm) diamond pattern steel plate shall be provided on the top of both side compartments.
 - 10.10 Vertical grab handles approximately 20 inches (508 mm) long shall be provided at top rear on each side.
 - 10.11 A boom rest, if necessary, shall be located and securely mounted to the manufacturer's recommendation, to hold the boom in the lowered position while traveling.

BIDDERS NOTE: IF INSTALLATION OF THE AERIAL DEVICE INTERFERES WITH THE UTILITY BODY OR CONFIGURATION PER THE ABOVE, SUPPLIER SHALL COORDINATE FINAL CONFIGURATION WITH STATE.

11. INSTALLED EQUIPMENT ELECTRICAL SYSTEM:

- 11.1 Vendor shall furnish a Power Distribution Center (PDC) independent of the chassis OEM electrical system, for all added equipment electrical wiring. PDC shall include as a minimum:
 - 11.1.1 Covered junction box furnishing individual protected circuits for all non-chassis equipment ordered.
 - 11.1.2 Excess capacity for a minimum of two additional circuits to be added at a later date.
 - 11.1.3 A back-lit switch panel shall be furnished.
- 11.2 Under no circumstances shall added equipment be wired into the main chassis fuse box.
- 11.3 All electrical wiring shall be insulated and enclosed in fibrous loom, plastic loom or flexible conduit for protection from external damage and short circuits. Wiring shall be securely fastened at sufficient intervals to prevent sagging and insecure clearance of mechanical parts. Routing of the wiring through the sub-frame, deck, etc., shall not interfere with the normal operation, nor present a safety hazard. A sealed, splice-free modular wiring harness is acceptable. Rubber grommets shall be used wherever wires of harness pass through metal.
- 11.4 STATE will install safety lighting (Bar lights or strobes).
- 11.5 A flashing warning light mounted in the cab, and illuminated whenever the device is not fully lowered and stored in the traveling position, shall be provided.

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12. HOUR-METER: Shall be one of the following dash mounted hour-meters for engine;

12.1 Vehicle OEM in-dash standard hour-meter.

12.2 Hour-meter, electric, quartz type, shock proof, totally sealed case, with readout up to 9,999.9 hours. Shall be three screw or flush mount with system voltage between 10-32V.

EXAMPLE: Hobbs Model 85001-02, or STATE approved equal.

13. Cab and Chassis:

13.1 Truck shall be:

13.1.1 OEM Cab
13.1.2 17,500 G.V.W. rating
13.1.3 Auto Trans-P.T.O. provision
13.1.4 Diesel engine-6.L
13.1.5 84" CA, minimum
13.1.6 Minimum Top Speed of 75 M.P.H.
13.1.7 Minimum 35 Gallons fuel tank

Example:

- Ford F550 series
- Diesel 6. Liter
- Auto transmission with P.T.O. provision
- 164" WB
- 84 CA.
- 4.88 axle ratio

13.2 Truck shall have the following:

13.2.1 Speed control
13.2.2 Air conditioning
13.2.3 Aux power point
13.2.4 Front tow hooks
13.2.5 Tilt Steering
13.2.6 Heavy duty alternator
13.2.7 AM / FM
13.2.8 Hour- Meter (as per section 12)
13.2.9 All standard features
13.3.10 Cloth seat preferred

13.3 Frame of truck shall be reinforced as necessary, and a clear frame rail for mounting a utility box is preferred.

13.4 NOTE: No equipment mounted shall be welded to the vehicle frame at any point between the front of the front spring hanger and the rear of the rear spring hanger. All holes for bolting must be drilled in the chassis manufacturer's accepted manner, and the burning of said holes shall not be acceptable under any condition. Furthermore, no holes shall be drilled in top or bottom flange of truck frame unless drilling is confined to the section behind the rearmost attachment of the rear spring hangers or for preformed factory-made frame-rail bolt holes for subsequent body installation. Welding or torch cutting shall be confined to "boxing" the rear end of the truck frame. All such work shall be confined to area behind rear spring hangers. Chassis frame rivets shall not be removed or cut flush with frame for any reason.

14. PAINTING: The units shall be painted the same color as the truck chassis, with lead free paint, except for glass, rubber and those metallic accessories or fixtures constructed of rust-resistant or plated material not normally painted.

15. MANUALS: Two copies of manuals with latest revision(s) of ANSI/SIA A92-2001 shall be delivered with each unit. These manuals shall include, but not be limited to, an illustrated parts book, operator's manual and service manual. These also shall include, at minimum, all appropriate manuals for the device hydraulic system, controls and electrical system.

15.1 Additionally, two sets of complete wiring and hydraulic schematics shall be delivered with each unit. All schematics shall be clear, legible and indicate the location of each component. Hydraulic schematics shall include the diameter and length of each hose, and the manufacturer and part number of each fitting.

15.2 The manuals and schematics supplied shall provide complete and comprehensive information on all equipment, equipment components and accessories, as supplied to comply with this specification. If changes, modifications, additions or alterations of any kind are made on the equipment, the vendor shall provide blueprints, line drawings and descriptive text sufficient to allow a person of average skill in general mechanics to diagnose, repair and maintain the equipment and all components.

15.3 On equipment assembled from manufactured components, parts manuals shall show the manufacturer of each part and all cross referencing between the vendor and the manufacturers.

15.4 The operator's manual shall include detailed instructions on the proper method of operation of the units, load/stability requirements, and electrical safety instructions, to include proper use of the grounding kit. Necessary warnings and safety precautions shall be included.

15.5 The following additional information shall be provided by the vendor, at time of delivery, if it is not included in the manuals required above.

15.5.1 Manufacturer's recommended service, preventive maintenance and overhaul intervals.

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15.5.2 Recommended fluids, lubricants and their SAE equivalents.

16. INSTRUCTION ON SAFETY, OPERATION AND MAINTENANCE: The vendor shall provide the services of a competent, factory-trained, technician thoroughly trained in the use and operation of the units offered to STATE.
 - 16.1 A minimum of eight hours of instruction on safety, operation and preventive maintenance of the units, as required by ANSI 8.12 after the machine has been delivered and is ready for operation but prior to payment. The instruction shall include a full demonstration of all units' functions on the unit(s) delivered. The electrical safety instruction shall include, but not be limited to, proper grounding procedures for the vehicle. Instruction shall identify potentially hazardous situations when working in the vicinity of high voltage lines, and how these situations can be prevented and/or reduced.
 - 16.2 LESSON PLAN: The supplier shall furnish a copy of the units manufacturer's approved lesson plan for the instructional training required, within 30 days after award of the purchase order. The lesson plan may be taken from the operator's manual, provided all necessary information is included.
17. INSPECTIONS, CERTIFICATIONS AND SAFETY EQUIPMENT
 - 17.1 SAFETY INSPECTION: The vendor shall have the units inspected in accordance with either the United States Department of Transportation or the State of Utah motor vehicle laws (as indicated by the Gross Vehicle Weight Rating of the units(s) cab and chassis.). A certified inspection station shall conduct the inspection, and the units shall have the inspection certificate properly affixed at time of delivery.
 - 17.2 ANSI CERTIFICATION AND DOCUMENTATION: The aerial device described above shall be complete, assembled, mounted, serviced, tested, and certified on the vehicle described in the IFB. Complete units(s) shall be furnished. Each unit shall be composed of an aerial device mounted on a truck chassis and shall include any additional options or special equipment specified. The aerial device shall be delivered in full compliance with all applicable ANSI and OSHA standards, rules, and regulations. A corresponding inspection sticker shall be affixed. A test report noting any discrepancies identified along with the corrective action taken and the date performed, and stating the results of a dielectric test and stability test performed on the delivered units will be provided. If there are any repairs made at the time of inspection, a completed work order describing the repair shall be included with the report. All paperwork shall be signed and dated by a certified aerial device inspector.
 - 17.3 MANUFACTURER'S STATEMENT OF ORIGIN AND LINE SETTING SHEET: A Manufacturer's Statement of Origin (MSO) and line setting sheet covering the components of each cab and chassis provided shall be furnished by the supplier.
 - 17.4 WHEEL CHOCKS: Two each shall be delivered with each unit. The size and quantity shall be as recommended by the manufacturer for a service life of five years minimum. Wheel chocks shall be stored in receptacles located under the body near the rear wheels.
18. REPLACEMENT FILTERS: A complete set of replacement filter elements shall be provided for units furnished to these specifications. This set of filter elements shall include air, fuel, oil, and hydraulic filters used on the equipment. Each filter shall be labeled with the equipment manufacturer's part number as shown in the manufacturer's parts book and shall be furnished at the time of delivery. The attached Filter Identification Form should be completed and submitted in duplicate for informational purposes only.

PART III: DELIVERY, ACCEPTANCE AND PAYMENT

1. DELIVERY REQUIREMENTS: Delivery of all equipment on this order shall be completed within the number of days bid, as shown on the purchase order. Any units not delivered within this time frame may be canceled from the purchase order or, at STATE'S option, an extension may be granted, whichever is in STATE'S best interest.
 - 1.1 If any units are canceled for non-delivery, the needed equipment may be purchased elsewhere and the vendor may be charged full increase, if any, in cost and handling.
 - 1.2 Unless a delivery extension is granted for acceptable reasons due to circumstances beyond the vendor's control, liquidated damages of \$20.00 will be deducted from the invoice for every working day after the expiration of the number of days shown on the purchase order until the units are delivered. This provision is not intended as a penalty but as liquidated damages.
2. STATEMENT OF INTENT: It is the intent of STATE that equipment be delivered in full compliance with the specifications.
3. ACCEPTANCE INSPECTION: All equipment ordered with this request will be subject to acceptance inspection and performance testing upon receipt. Acceptance inspection and performance testing will not take more than five working days, weather permitting. The vendor will be notified within this time frame of any units not delivered in full compliance with the purchase order specifications. If any units are canceled for non-acceptance, the needed equipment may be purchased elsewhere and the vendor may be charged full increase, if any, in cost and handling.
4. WORKING DAY: A working day is defined as a calendar day, not including Saturdays, Sundays, or regularly observed state and federal holidays.

PART IV: TERMS of WARRANTY: The units of equipment shall be warranted against all defects in material and workmanship for a period of not less than 12 months or 1,200 hours of use, whichever comes first, and shall cover 100 percent parts and labor for the units. If manufacturer's standard warranty exceeds 12 months or 1,200 hours, then the standard warranty period shall be in effect. The warranty begins on the date the units is determined to meet specifications and is accepted into STATE'S fleet.

1. **INTENT:** During the warranty period the vendor will be responsible for labor, materials, and other costs as outlined below associated with required warranty repair. It is the intent of this warranty that the vendor perform warranty repair work. At STATE'S option, STATE may perform minor warranty repairs to the units at the vendor's expense.
2. **EXCLUSIONS:** STATE will assume the expense for replacement tires and tubes, tire repairs, lubricating oils, hydraulic fluids, greases, filters, fuel, antifreeze, batteries, lights, hoses, belts, cleaning, painting and other minor items normally consumed in day-to-day operations. STATE will assume responsibility for cost of repairs resulting from collision, theft, vandalism, operator negligence and/or acts of God.
3. **EQUIPMENT MAINTENANCE:** It is STATE'S policy to maintain the equipment in accordance with the manufacturer's published recommendations.
4. **MINOR WARRANTY REPAIRS:** It is the intent of this warranty that the vendor perform minor warranty repairs; however, at STATE'S option, warranty repairs deemed by STATE to be minor in nature may be performed by U.D.O.T. at the vendor's expense. Parts required for repairs, which are to be made by STATE, will be OEM parts and obtained from the vendor at no cost to STATE, or from any commercial source. Only the actual time required for repairs will be reimbursed. Reimbursement by the vendor to STATE for the cost of warranty repair will be computed as follows:
 - 4.1 **Labor:** Labor for warranty repairs will be calculated at the composite rate for the mechanic in effect at the time of the warranty repairs. Labor rate will not exceed \$40.00 per hour. The time allowed for each repair will be determined by the manufacturer's standard time schedule. Manufacturer's time schedule shall be furnished to the receiving district with the units at the time of delivery (if available). If a manufacturer's time schedule is not available, the actual time for repairs, as noted above, will be used.
 - 4.2 **Warranty Repair Claims:** Warranty repairs will be accumulated on STATE repair orders and will be billed from same, unless the vendor prefers to have claims processed on the vendor's standard forms.
 - 4.3 **Parts:** Replaced parts will be held thirty calendar days and will be available for inspection by the vendor or authorized representative. Copies of invoices for all parts will be provided to the vendor. The cost of parts other than those furnished to STATE at no cost by the vendor will be billed at actual cost.
 - 4.4 **Billing and Payment for Warranty Repair Expenses:** Costs for minor warranty repairs will be accumulated, including labor and replacement parts (if not provided). Reimbursement payment must be made within thirty calendar days of the billing date.
5. **MAJOR WARRANTY REPAIRS:** When major warranty repairs are required, STATE will notify a representative of the vendor's Utah dealer by telephone at the location and the telephone number designated by the vendor on the data sheet as the point of contact. Major warranty repair work for the purpose of this specification means major repairs to the hydraulic and electrical system and major repairs to any other components of the units. Diagnosis of the actual repairs required will be the responsibility of the vendor. The units will be made available at a STATE facility within a 100-mile (160.93 km) radius of the FOB point shown on the purchase order. The repair work may be performed by the supplier or his authorized representative.
 - 5.1 At the supplier's option, the units may be taken by the supplier to a commercial repair facility. If so, the vendor will be responsible for the cost of the round-trip transportation of the units to and from that location.
 - 5.2 If mutually agreed upon between the vendor and STATE, STATE may transport the units to the vendor's location or authorized repair facility (within the boundaries of the state of Utah). The cost of equipment and manpower necessary to haul the units for the round trip will be billed back to the vendor at the rental rate of the equipment and composite hourly rate for the driver in effect at the time for the equipment required. The composite hourly rate for the driver will not exceed \$25.00 per hour. Rental rate for the truck and trailer will not exceed \$11.00 per hour for the truck and \$3.00 per hour for the trailer.
 - 5.3 **Response Time:** Warranty repair action shall begin within two working days after notification is made to the vendor for need of warranty repairs. A representative of the vendor's Utah dealer will be notified by telephone at the location and telephone number designated by the vendor on the data sheet as the point of contact. The vendor shall notify STATE immediately of any changes in this location and/or telephone number. The warranty repairs should be completed and the units returned to STATE. (or picked up by STATE at the supplier's expense as outlined above) within a reasonable period of time. For the purpose of this specification, eight working days is defined as a reasonable period of time. Excessive delays incurred for the performance of warranty repairs by the vendor may adversely affect the vendor's status as a qualified bidder.
 - 5.4 **Billing and Payment for Warranty Repair Expenses:** Costs will be accumulated for transportation of the units by STATE to the vendor's location or authorized repair facility. Payment for transportation costs as provided for in this section must be made within thirty calendar days of the billing date.

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6. PARTS AND SERVICE: The manufacturer of the equipment furnished shall have an authorized dealer within the state of Utah. The authorized dealer shall have factory-trained personnel available for warranty repairs and the performance of service. The dealer shall also maintain an inventory of high-usage parts and a quick source for low-usage parts.

Part V: OPTION TO TRADE IN STATE EQUIPMENT:

1. Description of trade-ins: two units against the purchase price of the two quoted units; 2000 International, 4700 LP with man-lift Signalier, Model ID T-528.
2. Call for appointment for viewing the trade-in man-lifts with David Hopkins, (801) 965-4933, located at 4501 S. 2700 W. Salt Lake City, Utah 84119.

See attachment (A) for photo.

Attached quote and terms.

Specification: Aerial Lift

AERIAL DEVICE, TRUCK-MOUNTED, ARTICULATED OR TELESCOPING - 40 FOOT

EXHIBIT A: - Example of Detail Specification:

Supplier shall insert or attach the requested information and return copy with IFB.

TRUCK DATA:

Truck: Make _____ Model _____

Wheelbase _____ Cab to Axle _____

Vehicle GVWR Recommended by the Aerial Device Manufacturer _____ lbs.

GVWR Supplied _____ lbs.

Vehicle Front GAWR Recommended by the Aerial Device Manufacturer _____ lbs.

Vehicle Rear GAWR Recommended by the Aerial Device Manufacturer _____ lbs.

Front GAWR Supplied _____ Rear GAWR Supplied _____

Front Axle Capacity _____ Rear Axle Capacity _____

Engine: Make _____ Model _____

CID _____ No. of Cylinders _____

SAE Net Horsepower _____ @ _____ RPM, SAE Net Torque _____ @ _____ RPM

Governed RPM _____

Transmission: Make _____ Model _____

Ratios _____ No. of Speeds Forward _____ Reverse _____

Rear Axle:

Make _____ Model _____

Ratios _____

Tire Size: Front _____ Rear _____

Ply Rating: Front _____ Rear _____

Rim: Size _____ Type _____

Hour meter: Make _____ Model _____

Minimum Frame Section Modulus recommended by Aerial Device Manufacturer _____

Frame Section Modulus with reinforcement to be provided _____

Type Reinforcement _____

Vehicle Frame Resistance Bending Moment (RBM) Recommended by the Aerial Device Manufacturer _____

Vehicle Frame RBM to be Provided _____

Manufacturer's recommended overhaul/dielectric test intervals _____

Power Take-off Recommended by Aerial Device Manufacturer:

Make _____ Model _____ No. of Speeds _____

Power Take-off Provided:

Make _____ Model _____ No. of Speeds _____

% of Engine RPM at which the PTO will operate _____

Utility Body Make _____ Model _____

Length _____ Width _____ Height _____

Specification: Aerial Lift

Aerial Device: Make _____ Model _____

Bucket Height _____ Reach at Horizontal _____

Lower Boom Insulation _____ Upper Boom Insulation _____

Maximum outrigger spread at full extension _____

Warning Lamp: Make _____ Model _____

It is understood that final actual rated capacity and static load capability of the units cannot be provided until complete assembly and testing of truck body and aerial device. However, based on the procedures contained in ANSI A92.2 - 2001 and the manufacturer's data, estimates of the capability of the units as described in the specifications shall be provided. Also, estimates of the axle loadings shall be provided. Estimated Total Operating Weight including truck, fuel, operating, body, device ballast and other equipment as specified is

_____ pounds.

Estimated weight of Ballast is _____ pounds.

Estimated rated capacity of aerial device is _____ pounds.

Estimated Static Load capacity with outriggers extended on level ground is _____ pounds.

Estimated Static Load capability on a five degree slope with outriggers extended is _____ pounds.

Boom position for extreme critical loading effect on vehicle is _____

Estimated Front Axle loaded weight in position outlined in 6 above under maximum rated load with outriggers is _____ pounds.

Estimated Rear axle loaded weight in position outlined in 6 above under maximum rated load with outriggers is _____ pounds.

Estimated Front axle loaded weight in the transport position is _____ pounds.

Estimated Rear axle loaded weight in the transport position is _____ pounds.

Warranty Period _____ months.

Name and address of firm nearest the FOB point that will provide warranty service and repair parts.

Firm Name _____

Address _____

Telephone _____ Individual to Contact _____

If the servicing dealer furnishes parts for minor repairs performed by STATE personnel, will this affect the warranty? _____.
If answer is "yes" please attach explanation.

Name of Firm _____

Bidder's Signature _____

Bidder's Telephone No. _____

Print or Type Bidder's Name _____









